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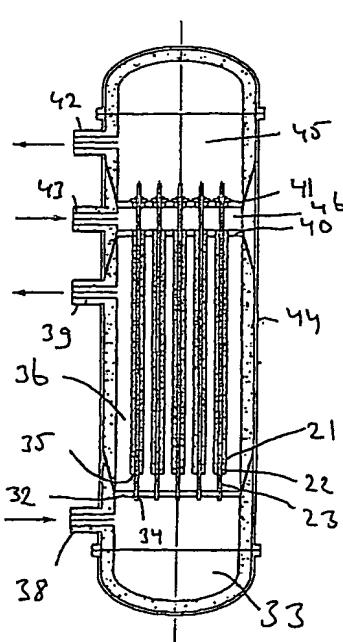
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(54) Title: PROCESS TO PREPARE SYNTHESIS GAS



(57) Abstract: Process for the preparation of hydrogen and carbon monoxide containing gas from a carbonaceous feedstock by performing the following steps: (a) partial oxidation of a carbonaceous feedstock in a vertically oriented tubular partial oxidation reactor vessel (51) comprising a burner (52) at its upper end thereby obtaining a first gaseous mixture of hydrogen and carbon monoxide, (b) catalytic steam reforming a carbonaceous feedstock in a Convective Steam Reformer (44) comprising a tubular reactor provided with one or more tubes containing a reforming catalyst, wherein the steam to carbon molar ratio of the feed to step (b) is below 1, to obtain as separate product a steam reforming product (39), (c) feeding the steam reformer product to the upper end of the partial oxidation reactor to obtain a mixture of the effluent of step (a) and the steam reformer product, and (d) providing the required heat for the steam reforming reaction in step (b) by convective heat exchange between the mixture obtained in step (c) and the steam reformer reactor tubes thereby obtaining a hydrogen and carbon monoxide containing gas having a reduced temperature.